

(19) World Intellectual Property  
Organization  
International Bureau



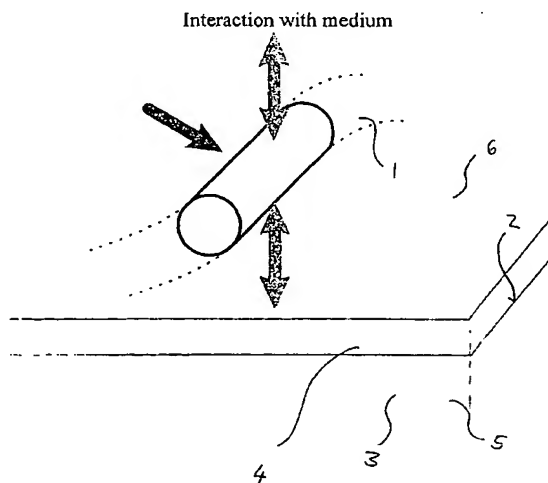
(43) International Publication Date  
1 April 2004 (01.04.2004)

PCT

(10) International Publication Number  
**WO 2004/026458 A1**

- (51) International Patent Classification<sup>7</sup>: **B01J 19/00**, (74) Agents: BOEHMERT & BOEHMERT et al.; Hollerallee 32, 28209 Bremen (DE).  
C12Q 1/68
- (21) International Application Number: PCT/EP2003/010329
- (22) International Filing Date: 17 September 2003 (17.09.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 02020812.0 17 September 2002 (17.09.2002) EP
- (71) Applicant (for all designated States except US): HUMBOLDT UNIVERSITÄT ZU BERLIN [DE/DE]; Unter den Linden 6, 10099 Berlin (DE).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): RABE, Jürgen [DE/DE]; Kleiststrasse 19, 14163 Berlin (DE). SEVERIN, Nikolai [RU/DE]; Britzerstrasse 21, 12439 Berlin (DE). KALACHEV, Alexej [RU/DE]; Alte Gärtnerei 22, 55128 Mainz (DE).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:  
— with international search report  
— with amended claims
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD FOR ARRANGING A POLYMER MOLECULE



(57) Abstract: The invention relates to a method for arranging a polymer molecule such as a biomolecule on a support, the method comprising the following steps: providing a substrate (3) having a surface (2); providing a surface layer (4) on said surface (2) of the substrate (3), said substrate (3) and said surface layer (4) providing a support (5); and placing a polymer molecule (1) on said surface layer (4) in a first position, said polymer molecule (1) having a first conformation on said surface layer (4); wherein said surface layer (4) is configured to adjust predefined molecular interaction between the polymer molecule (1) and said support (5) to allow fixing of the first conformation of the polymer molecule (1), dislocating at least part of the polymer molecule (1) across said surface layer (4) relative to said support (5) by an external force, and subsequently fixing the polymer molecule (1) on the surface layer (4).